

HIGH-SPEED OPTICAL RECORDING APPARATUS

Abstract

A high-speed optical recording apparatus for generating a write signal according to an input RLL modulated waveform to control a writing power of a pickup. The high-speed optical recording apparatus contains a rough delay element, which generates rough delay parameters and fine delay parameters according to a set of write strategy parameters and delays the EFM waveform generating a first delay signal. The high-speed optical recording apparatus also contains a fine delay chain, which includes a plurality of delay cells in serial connection. Each delay cell delays the first delay signal by a predetermined time period. The fine delay chain delays the first delay signal according to the fine delay parameter to generate the write signal.